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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/442,977	11/18/1999	DR. MARTIN MAASS	99-P-7370-US	6618
7590 10/06/2003 SIEMENS CORPORATION INTELLECTUAL PROPERTY DEPARTMENT 186 WOOD AVENUE SOUTH ISELIN, NJ 08830			EXAMINER	
			MILLER, CARL STUART	
			ART UNIT	PAPER NUMBER
			3747	
		DATE MAILED: 10/06/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/442,977	MAASS, DR. MARTIN				
		Examiner	Art Unit				
		Carl S. Miller	3747				
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the (correspondence address				
THE N - Exten after: - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply repriod for reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 14 A	<u> April 2003</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3)□							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠	Claim(s) <u>1-41,43-47 and 49-54</u> is/are pending	in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	5)⊠ Claim(s) <u>4,14-20,33-41,43-47 and 49-53</u> is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-3 and 5-9</u> is/are rejected.						
7)⊠	Claim(s) <u>54</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
	ion Papers						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachmen		_					
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				
J.S. Patent and T	rademark Office						

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The following is a quotation of 35 U.S.C. 103 (a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2,3,5,6,7,8 and 9, are rejected under 35 U.S.C. 103(a) as being unpatentable over Davis in view of Tanaka.

Davis disables a second set of pumps (35) after starting by connecting these pumps to a bypass. While the two sets of pumps <u>are</u> serially connected at starting, the other set (34) is never connected to the bypass (i.e. chamber (76)). Furthermore, "normally" is not clearly defined in the claims and since the bypass is open at all times except starting then it can be said that it is "normally" open.

Tanaka applies as noted in the last Office action.

It would have been obvious to use a solenoid actuator to open and close fluid flow to the pistons of Davis since such an actuator is used to open and close the Application/Control Number: 09/442,977

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bypass of Tanaka. For the broader claims, it is only necessary to note that the two sets of pistons in Tanaka are of different sizes, as is common in the art when additional fuel outputs are selectively required.

Claims 4, 14-20 and 33-41,43-47 and 49-55 are allowed.

Claim 54 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's arguments filed April 14, 2003 have been fully considered but they are not persuasive.

In particular, applicant continues to argue that the pistous of Davis are of identical size. While this is true, Tanaka <u>clearly</u> teaches making the extra set of pistons a smaller size and this is commonly the case in the art. Davis has been used as the primary reference because the extra set of pistons is controlled via a bypass and this is the method used by applicant. Davis reads on applicant's <u>rejected</u> claims completely except for the relative size of the pistons. The claims still rejected do not require <u>only</u> two pistons or only three pistons, therefore the fact the all of the pistons are in sets is of no consequence. In order to obtain applicant's system, as defined in the rejected claims, all one has to say is that it would have been obvious to make the starting (or

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additional fuel set of pistons) a smaller size. Tanaka teaches that this is commonly done since only a small amount of additional fuel is needed at starting.

Finally, applicant will note the claim 54 is objected to because this is the only claim which requires that the <u>at least two</u> pistons lie in the same plane with the plane perpendicular to the drive shaft.

Any inquiry concerning this communication should be directed to Carl Miller at telephone number 703-308-2653.

Carl S. Miller Primary Examiner